

Simulation

16/2/2016

السنة 5

المادة

الصفحة 1

- * **Model**: an abstraction of reality to study performance
- * A Model can be physical, mathematical, graphical and others.

Why modeling?

- to study
- to communicate
- to analyze

* **Simulation**: run the model to study the performance

* You can model how things look and how they perform

search for modes of thinking

* search for UML diagrams

* Making of software depends on personal skills and knowledge.

* there are discrete models and continuous model along with the previous models.

* The more closer the model is to reality, the more it's accurate

* there is nothing random, but our limit of knowledge let us perceive things as random.

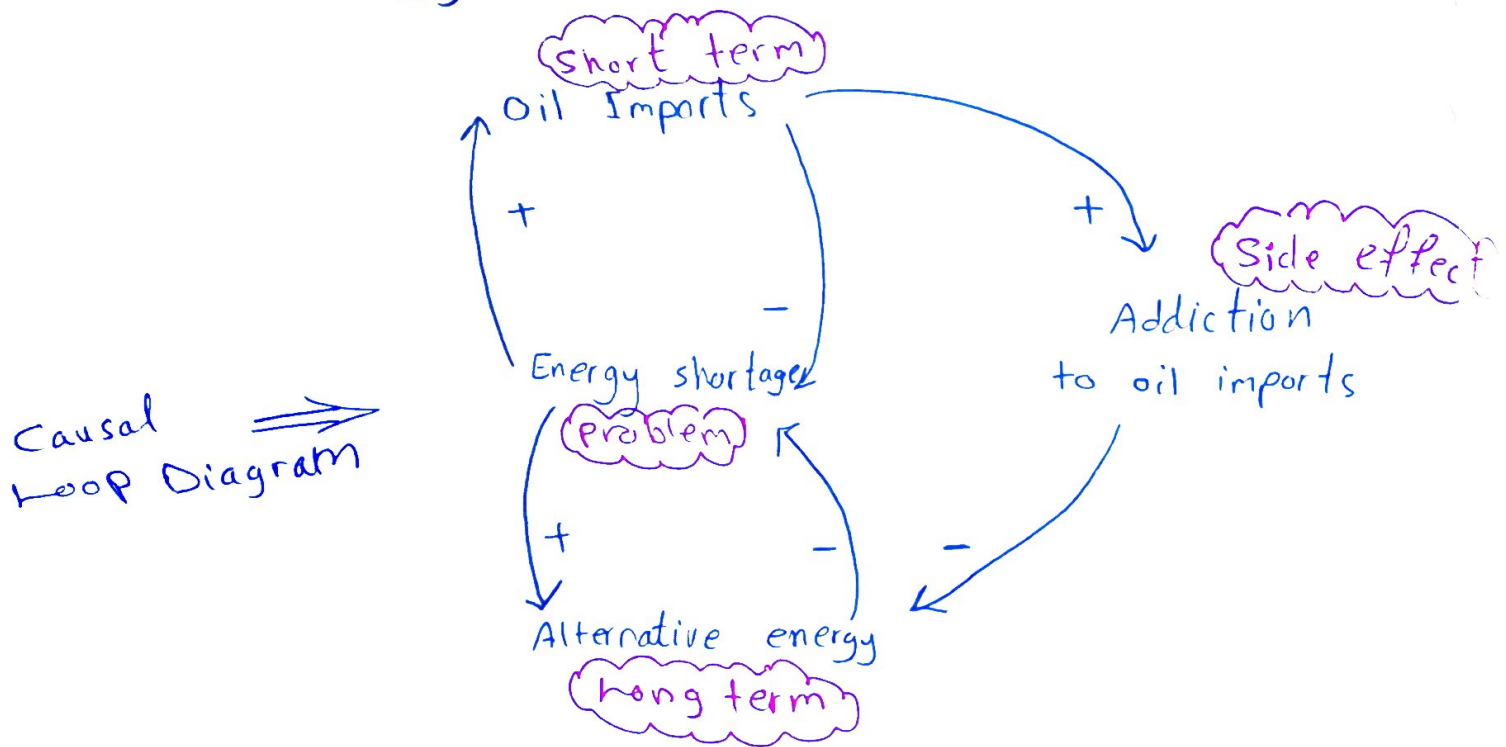
* problems can have either long solution or quick solution.

Long Solution: usually solves the main cause of problem

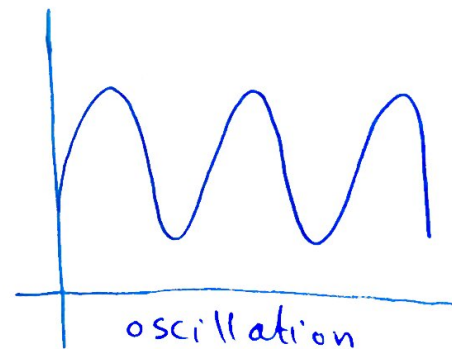
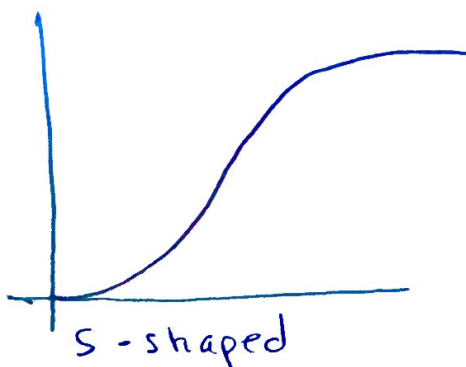
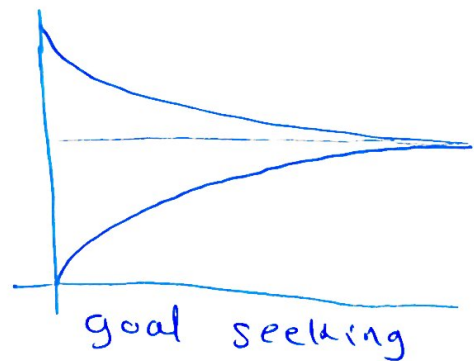
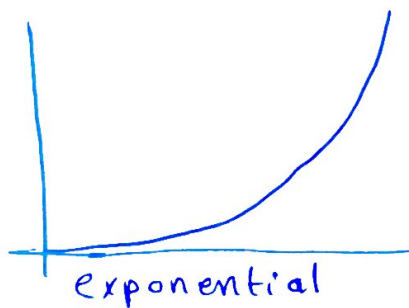
quick Solution: usually solves the side effects

Example :-

"oil and energy problem"



*Pattern of behaviors



Systems
can be seen
as
3 Levels



① System Structure



② Pattern of behavior



③ events

download Ven Sim Application
* Search for System Dynamic